

Sverdrup
CORPORATION

301 North Eleventh
St. Louis, Missouri 63107

ROUTING - REQUEST

Please

☐

READ

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HANDLE

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APPROVE

and

☐

FORWARD

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RETURN

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KEEP OR DISCARD

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REVIEW WITH ME

Date 11/23/87

To

PLEASE PROCESS AS

AMENDMENT TO

PC 67197

From

November 19, 1987

Cerro Copper Products Company
P.O. Box 681
East St. Louis, Illinois 62202

Attention: Mr. Sandy A. Silverstein
Manager, Energy and Environmental Affairs

Gentlemen:

Subject: Background Information Search

As you are aware, the Background Information Search being conducted for the property owned by Cerro Copper has been expanded to review the other sites being investigated as part of the IEPA Sauget/Dead Creek Study. A map of the Sauget area has also been developed. The other sites are being included because their close proximity may effect monitoring results conducted on Cerro property and Cerro Copper may be viewed as a Potentially Responsible Party (PRP) for more than just their property.

Also, as a result of the work conducted by Ecology & Environment for the IEPA, the amount of available information for review has also increased since the submittal of our original proposal in January of 1987. We suggest that a review of this new data be included in our report.

The above increases in the scope of work would increase our original estimate by \$3,500 to cover the additional manhour requirements. If the additional cost is acceptable, please sign and return one copy of this letter for our files.

We look forward to continuing working with you on all phases of the work. Please contact me if you have any questions.

Sincerely,

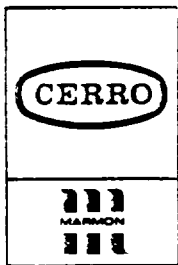
SVERDRUP CORPORATION

Jules B. Cohen
Jules B. Cohen, Ph.D.
Vice President

Accepted By: Name *Sandy A. Silverstein*

Title *Manager, Ecology & Environment*

Date *11/23/87*



CERRO COPPER PRODUCTS CO.

A member of The Marmon Group of companies

P.O. Box 681

East St. Louis, Illinois 62202

618/337-6000

December 16, 1987

Mr. Steven M. Hornung
Sverdrup Corp.
801 North 11th Street
St. Louis, MO 63101

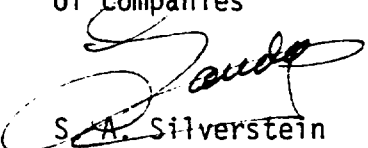
Dear Steve:

I am returning herewith a copy of the Draft Report - Background Information Search. Other than a few corrections that have been noted in the report, it appears to be satisfactory. I have retained the Site Plan (Appendix I) as it will be useful to me in several related matters; I could use two more copies.

Let me know if you have any questions, or would like to further review the report with me.

Sincerely,

CERRO COPPER PRODUCTS CO.
A member of The Marmon Group
of companies


S. A. Silverstein
Manager of Energy and
Environmental Affairs

SAS/ge

Enclosure

C283-6

901 North Eleven
St. Louis, Missouri 63101

814 436-7600

M. C. BURR
J. E. A. T. S. H.
H. W. J. C. H.
P. T. H. U. S. H.

November 24, 1987

Cerro Copper Products Company
P. O. Box 681
East St. Louis, Illinois 62202

Attention: Mr. Sandy Silverstein

Subject: Background Information Search

Gentlemen:

Enclosed please find a brief summary of findings from the background Search conducted by Sverdrup Corporation. A draft of the background document should be completed the first week of December. The recent availability of draft data from IEPA has slightly delayed the development of the report. We hope this has not created an inconvenience.

Should you require additional information please feel free to call.

Sincerely,

SVERDRUP CORPORATION

Steven M. Hornung

Steven M. Hornung, P.E.

2010 11/30/87 SHS

SUMMARY OF BACKGROUND INFORMATION SEARCH

A review of the available data on the IEPA Sauget/Dead Creek Project, indicates that the three sites owned or partially owned by Cerro Copper Products Company are apparently contaminated with organic and inorganic pollutants. Studies conducted by the IEPA contractor (E&E) indicate that the south east portion of Cerro's property has been used for the disposal of chemical waste. Site I (east of Dead Creek) and Site G (triangular section south of Queeny Avenue) both appear to have been used for the burial of waste, including the possibility of drummed material.

The generator of the waste has not been substantiated, however, it appears that Monsanto may be the principle source. Although it is circumstantial, the organic materials found are many of the same compounds Monsanto has indicated that they have produced and have buried in other landfills/dumps in the area. This is especially true of the chlorophenols and dichlorobenzenes that were found in the majority of samples. Other area industries also probably share in the responsibility since it seems that the sites were operated as common disposal areas for the region.

Inorganic contamination has also been detected in the creek sediments and the groundwater. Because copper is among the elevated elements, Cerro will probably be viewed as the major source of this contamination. Reports of community interviews conducted by the IEPA have also indicated that local citizenry have indicated Cerro Copper, along with other local industries, utilized the disposal areas in Sauget. Cerro Copper is also reported to have disposed of material in the Monsanto landfill, Site R. The type and volume of material supposedly disposed of is not reported. The fact that their name has been linked with the various sites increases the likelihood that Cerro might be included as a Potentially Responsible Party (PRP) for the cleanup.

The users of the Sauget Treatment Plant will also probably be looked to for financial assistance in the remediation of the sludge drying lagoons. Since Cerro Copper has discharged material to the plant, they will of course, be included. Inorganic data on the sludge is not currently available to assess the extent of Cerro's possible involvement.

Because of the close proximity of the numerous sites and the apparent large scale groundwater contamination, the full impact from each site is not expected to be determined. It is probable that individual sources will be removed and regional groundwater remediation, if feasible, will be undertaken. Site specific groundwater remediation will not be possible and Cerro's future involvement will need to be in conjunction with the other industries in the area. The percentage of involvement by Cerro is a major issue that still needs to be addressed.

cc: H. L. Schweich
P. Tandler
M. Rodburg
J. Patterson
File

MEMORANDUM

DATE: November 5, 1987
TO: Mr. S. A. Silverstein - Cerro Copper Products
FROM: Steven M. Hornung *S. Hornung*
SUBJECT: Background Information Search Update

As you are aware, the review of IEPA files concerning their investigation in the Sauget/Dead Creek area was not performed until the week of October 5, 1987. The review did produce some useful information concerning past investigations and concerns in the subject area. All data generated by E & E during their RI/FS study was not made available through the Freedom of Information Act. This material is being considered "Investigative" and is not being released to the public. The data concerning Cerro's property should be available through your access agreement. To date, only results on "Site G" have been obtained.

Aerial photos of the area of Cerro's property are being obtained to evaluate the past disposal indicated by the IEPA. The aerial photos utilized by the IEPA for the St. John Report were not available during the file review. Their sketches in the report are not felt to be adequate for review. The photos are being obtained from the National Archives and from the Agricultural Stabilization and Conservation Service - USDA. Receipt of the photos is expected shortly. Based on the dates of the photos available it appears this may be the same source as those used by the IEPA.

We anticipate being able to submit a draft of the background search document for your review next week. The absence of the aerial photos will not delay this submittal.

Should you have any questions please feel free to call.

Steven M. Hornung

10/28

TELECON - STEVE HORVATH (SUCARDUP)

- 1) IEPA WOULD NOT RELEASE ANY DATA FROM EYE'S "STUDY OF SAUDER SITES. CLAIM IT IS STILL IN "INVESTIGATORY STAGE" WHICH EXEMPTS IT FROM FREEDOM OF INFO. ACT.
- 2) HAS COLLECTED CONSIDERABLE DATA RELATIVE TO MONSANTO'S STUDIES ON THEIR PROPERTY. EVIDENCE OF CONSIDERABLE AMOUNT OF ORGANIC CONTAMINATION.
- 3) HAS ORDERED COPIES OF SEVERAL AERIAL PHOTOS TAKEN A NUMBER OF YEARS AGO. THESE ARE QUITE RELEVANT TO BACKGROUND STUDY.
- 4) EXPECTS TO GIVE US DRAFT COPY OF HIS REPORT NEXT WEEK. IF IT IS DELAYED HE WILL GIVE US A BRIEF STATUS REPORT.



FROM

CERRO COPPER & BRASS COMPANY

Division of CERRO CORPORATION

P. O. BOX 681

EAST ST. LOUIS, ILLINOIS 62202

TO
 J. W. Golden Bros. W. F. Lorne
 W. G. Galt ✓ R. O. Wagon
 R. Connors

SUBJECT Biosize Report - Phase III-13

DATE 7/15/71

MESSAGE

There will be a meeting in my office at 2 PM Monday, July 19, to discuss this report, copy of which was transmitted to you approximately 2 weeks ago. Please review the data before the meeting. We will also discuss an additional proposal for combining waste-streams temporarily to existing treatment systems.

SIGNED


REPLY

CC. W. E. DUNNICK

SIGNED

DATE / /

Rediform® 45 472

SEND PARTS 1 AND 3 WITH CARBON INTACT -- PART 3 WILL BE RETURNED WITH REPLY.

Monsanto

Monsanto Biodize Systems Inc.
510 Northern Boulevard
Great Neck, New York 11021
Phone: (516) 466-5511

April 12, 1971

Mr. W. D. Dunnick
Cerro Copper and Brass Company
Sauget, Illinois 62206

Dear Mr. Dunnick:

As was stated in our previous proposal of February 26, 1971, our study would be conducted on a cost not to exceed basis. The following costs refer to the final proposal and to the flow measurement program outlined in the preliminary sampling and analysis report.

III B. Flow measurement sampling and analysis

| | |
|----------------------------------|-----------|
| One Engineer - 4 days @ \$200.00 | \$ 800.00 |
| 1 day supervision | |
| 1 day monitoring | |
| 2 days report | |

| | |
|-------------------------------------|------------|
| One Technician - 11 days @ \$150.00 | \$1,650.00 |
| 3 days setup, takedown | |
| 1 day equipment preparation | |
| 2 days monitoring | |
| 2 days sample preparation | |
| 2 days analytical | |
| 1 day calculation | |

| | |
|-----------------------------|-----------|
| Laboratory Charge - - - - - | \$ 325.00 |
|-----------------------------|-----------|

| | |
|----------------------------------|------------------|
| Equipment and Supplies - - - - - | \$ <u>550.00</u> |
|----------------------------------|------------------|

| | |
|-------|------------|
| TOTAL | \$3,325.00 |
|-------|------------|



Monsanto
BIODIZE SYS. INC.

Mr. W. E. Dunnick
page two
April 12, 1971

Also further sewer definition involving tracing and updating sewer drawings is necessary as noted in the preliminary report. This was not included in the original scope of the project. This work will be performed by Biodize for a fee as follows:

| | |
|-----------------------------------|---------------|
| One Engineer - 1 day @ \$200.00 | \$200.00 |
| One Technician - 1 day @ \$150.00 | <u>150.00</u> |
| TOTAL | \$350.00 |

The information obtained will be forwarded to Cerro Engineering for updating sewer diagrams.

It is proposed that Cerro authorize IIIB as revised at a total cost of \$3,675.00 to include the flow definition work.

A report of the results and a proposal for the investigation of treatment schemes will be given after the completion of the work listed under Phase III B.

Terms and conditions will be the same as those agreed on previously by Messrs. Tandler, Johnson, and Knowles.

Yours truly,

Bruce C. Davis

Bruce C. Davis
Engineer, Prototype Plants

BCD:rs

CERRO COPPER & BRASS COMPANY

DIVISION OF CERRO CORPORATION

INTERNAL MEMORANDUM

Form HQ-10

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

OTHER ADDRESSEES - FOR INFORMATION

cc: W. Lorenz
File 1022, MM

cc. W.F. DUNNICK
J.W. GOLDMAN
W.G. GRIFF
R.C. WIGGON

TO: P. Tandier, Technical Manager

DATE: April 21, 1971

FROM: M. Mustafa, Chief Chemist

SUBJECT: WATER POLLUTION SAMPLES

According to your request, we have performed a trace element analysis on water pollution samples. There are some differences between our analyses and the Monsanto Biodize analyses. These differences in the analyses are due to many factors which influence the analysis of polluted water.

The interval between collection and analysis affects the results. In general, the shorter the elapsed time between collection of a sample and its analysis, the more reliable will be the analytical result. Immediate analysis in the field is required in order to obtain dependable results, because the composition of the sample may change before it arrives at the Laboratory.

Changes caused by the growth of organisms may be greatly retarded by keeping the sample in the dark and at a low temperature until it can be analyzed.

Certain cations are subject to loss by adsorption on, or ion exchange with the walls of glass containers. Some of these such cations are Al., Cd., Cr., Cu., Fe., Pb., Mn., Ag., and Zn.

Color, odor, and turbidity may increase, decrease, or change in quality. Changes in analyses are also caused by increasing or decreasing the PH of the sample.

MM:ek

Muhammad Mustafa